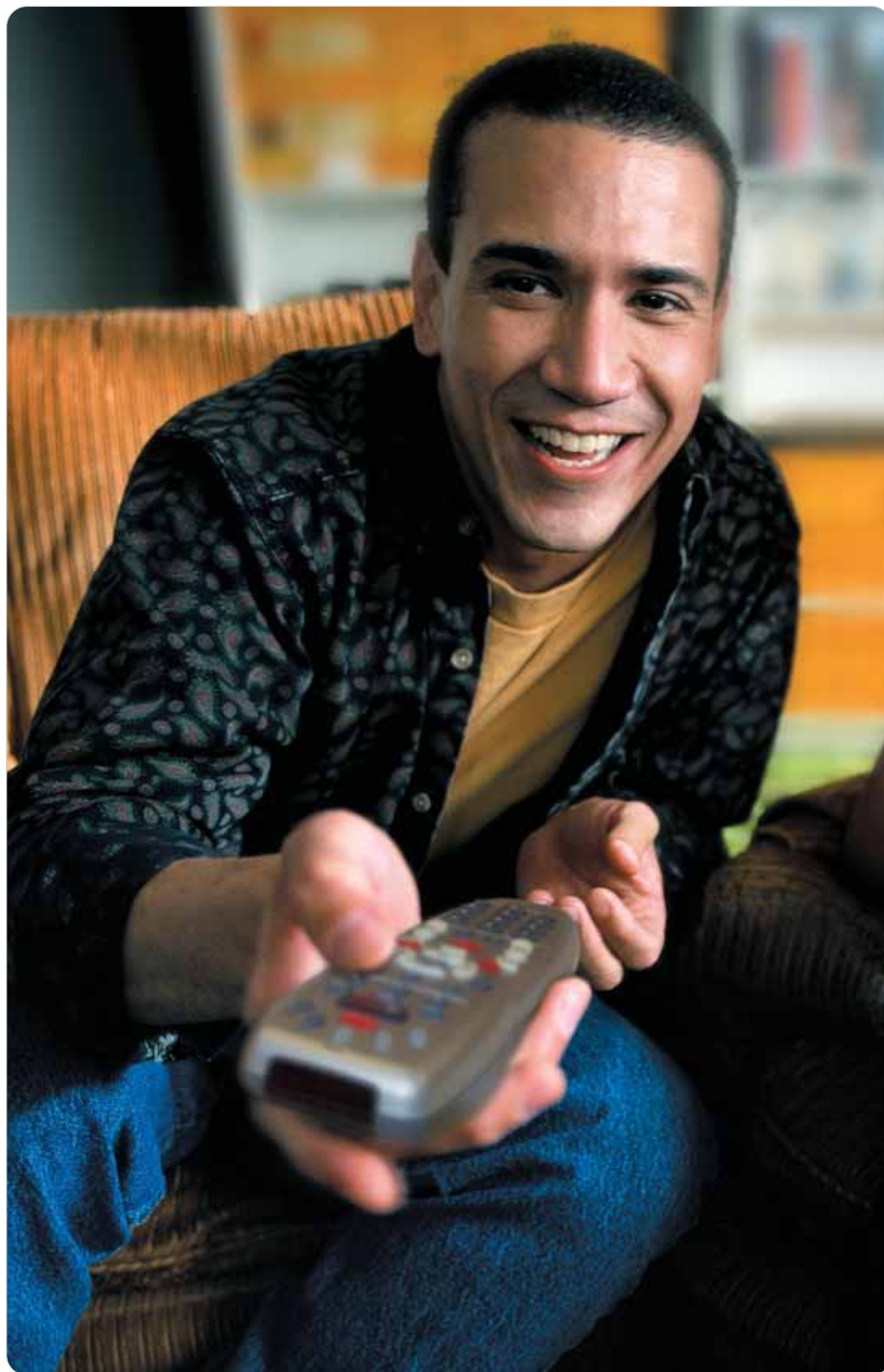


BECAUSE EVERY HOME DESERVES A WELL-TRAINED TV



DIGITAL VIDEO RECORDER
USER GUIDE

comcast



YOU'RE WATCHING THE BIG GAME IN THE DEN. SUDDENLY, YOU HAVE A DESPERATE URGE FOR A TURKEY SANDWICH. SO YOU HIT PAUSE. WALK TO THE KITCHEN. MAKE YOUR SANDWICH. GRAB A COLD ONE. WALK BACK TO THE DEN. PRESS PLAY. AND THE LIVE GAME PICKS UP RIGHT WHERE YOU LEFT OFF. WITHOUT MISSING A SINGLE, HEART-POUNDING PLAY. WELCOME TO DVR FROM COMCAST DIGITAL CABLE.

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» INTRODUCING DVR



OOPS — YOU JUST MISSED THE BIG CLIFFHANGER ON THE SEASON FINALE OF YOUR FAVORITE SHOW. IF ONLY YOU COULD REWIND THAT LIVE SHOW AND SEE IT AGAIN. IF ONLY YOU COULD WATCH THAT SHOW, PLUS YOUR FAVORITE SITCOM AT THE SAME TIME. IF ONLY YOU COULD RECORD ONE SHOW AND WATCH ANOTHER AT THE SAME TIME. IF ONLY YOU COULD RECORD TWO SHOWS AND WATCH ANOTHER AT THE SAME TIME. IF ONLY YOU COULD PAUSE LIVE TV FOR UP TO AN HOUR WITHOUT MISSING A MINUTE. NOW YOU CAN. WELCOME TO DVR. AND A LIFE OF TV WITHOUT “IF ONLY.”

» INTRODUCING DVR

5

You'll never watch TV the same way again. Now you can:

- » Control live programs as if they were recordings
- » Easily record your favorite shows — at least 30 hours of programming
- » Watch your recordings anytime you want
- » Use the Picture-In-Picture (PIP) feature

Get More out of Your TV

With DVR, you can use your TV to:

- | | |
|-----------------------|--|
| WATCH | <ul style="list-style-type: none">» one live program» two live programs at the same time with the PIP feature» one pre-recorded program» one live and one pre-recorded program at the same time |
| RECORD | <ul style="list-style-type: none">» one live program» two live programs at the same time» at least 30 hours of programs» all future episodes of your favorite programs, just by performing a one-time setup |
| SIMULTANEOUSLY | <ul style="list-style-type: none">» watch two programs and record one of them» watch two programs and record both of them» watch a pre-recording while you record two other programs |



» INTRODUCING DVR

Take Control of Live Programs

Anytime you tune to a live program, DVR begins “buffering” it — that is, making a temporary recording of it — so you can:

- » Pause the live program or rewind it
- » Fast-forward through the portion you have rewound
- » Replay live TV anytime you want
- » Save the buffered program to the DVR's hard drive to access it again later

Buffered Programs

DVR automatically buffers the last hour of the program that you're watching and continues to buffer the channel until you:



Watch the channel for longer than an hour

After an hour, DVR removes the earlier minutes of the program from its buffer so that only the most recent hour is kept in the buffer.



Tune to another program

When you change channels, DVR begins to buffer the program you have just tuned to. It removes the program you were watching from the buffer.




Turn off the DVR

When you turn off the DVR, it erases everything from its buffer.



Have DVR record the program

When you press **Record** , DVR records the portion of the live program it has buffered, and begins recording the rest of the live program as it is broadcast.

When recording, the red **Record** light turns on.

» GETTING STARTED

7



NEVER BEFORE HAS A REMOTE CONTROL FELT SO POWERFUL. WITH JUST ONE CLICK, YOU'LL CONTROL RECORDINGS, LIVE TV, PICTURE-IN-PICTURE — THE WORKS. AND HEY, YOU CAN EVEN MAKE IT DO SOME FUN TRICKS.



» GETTING STARTED

Prepare Your Remote Control

After you've connected DVR to your TV, here's how to prepare your remote control.

Refer to the guide that came with your remote control to make DVR work with the make and model of your TV. Follow those instructions first, and then:

Press **Cable**.

The **Cable** key blinks red when you press it and the green **Power** indicator on the front of DVR turns on or off depending on the current status of the DVR.

*Note: Your Comcast Installer may have already placed the DVR in Cable mode for you. Verify this by pressing the **Power** key on your remote control to see how the DVR responds. Each time you press a key on the remote, one of the three mode keys, **Cable**, **TV**, or **AUX**, blinks red to indicate the mode the remote is in.*



Manage Your DVR Box

To extend the life of the DVR, turn **Off** the DVR each night before going to bed.

When the DVR is powered **Off** (and plugged into an active electrical outlet), all scheduled recordings will be performed automatically — and your recordings will be protected.

Powering **Off** your DVR automatically activates the **Parental Controls** you have set up.

Each night before you go to bed, make sure that the green **Power** indicator is off.



The time LED will remain on when the DVR is plugged into an active outlet.

» FIND OUT WHEN YOUR FAVORITE PROGRAMS ARE ON

9



THE PROGRAM GUIDE WILL BE YOUR NEW BEST FRIEND. CONSIDER IT THE ULTIMATE SEARCH ENGINE FOR YOUR TV. NO MORE ENDLESS SCROLLING THROUGH COUNTLESS SHOWS TILL YOU FIND SOMETHING YOU LIKE. NOW YOU CAN SEARCH BY PROGRAM TITLE, THEME, CHANNEL NUMBER, OR BROADCAST DATE. WHEN YOU FIND WHAT YOU WANT TO WATCH, JUST CLICK TO IT DIRECTLY FROM THE GUIDE.



» FIND OUT WHEN YOUR FAVORITE PROGRAMS ARE ON

Display the Program Guide

1. Press **Guide** . The Program Guide appears and lists programs for the next 7 days.
2. To close the guide, press **Guide** . The Program Guide closes, displaying the program that was highlighted in the Program Guide.

The Program Guide

The **Information** area displays information about the program that is highlighted in the Program Guide.


The **Browse By** area automatically lists programs by channel number, but you can choose to list programs by title, theme, or date by hitting or .

The **Options** area displays additional options.

The **Quarter Screen** shows the program you are tuned to.

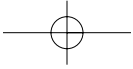
The **Broadcast Time Bar** lists the times programs are shown.

The **Programs** area displays the title of each program.



Select a Program from the Program Guide

1. Press **Guide** . The Program Guide appears and lists programs for the next 7 days.
2. Press the **directional keys** to navigate program listings and highlight your selection.
3. Press **Select** . If the program is currently on, the Program Guide closes and the program you selected appears in full-screen TV. If the program is on in the future, a future program option screen appears.



» FIND OUT WHEN YOUR FAVORITE PROGRAMS ARE ON



11

Search for a Program by Channel, Title, or Theme

DVR automatically lists programs by channel number, but you can customize it to list programs by title or theme.

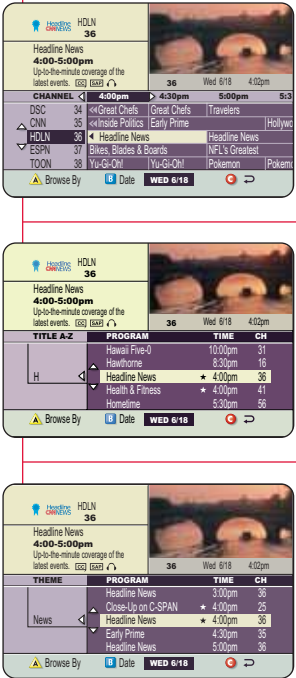
1. Press **Guide** . The Program Guide appears and lists programs for the next 7 days.
2. Press **Browse By** .
3. Press **Move Up** or **Move Down** to highlight Channel, Title, or Theme.
4. Press **Select** to select your new search criteria.

Browse By Options

Browse By Channel
Channel lists programs numerically by channel number.

Browse By Title
Title lists programs alphabetically by title.
Note: A star next to a program indicates that the program is currently being broadcast.

Browse By Theme
Theme lists programs by theme, such as adventure, comedy, sports, or news.



Search for a Program by Date

1. Press **Guide** . The Program Guide appears and lists the next 7 days of programs.
2. Press **Date** . The next 7 dates are displayed.
3. Press **Move Up** or **Move Down** to highlight a date.
4. Press **Select** to list programs that will be broadcast on that date.

» CONTROL LIVE TV AND RECORDINGS






YOU'RE WATCHING THE SEASON FINALE OF YOUR FAVORITE SHOW OF ALL TIME. YOUR BEST FRIEND CALLS. AND FOR THE FIRST TIME EVER, YOU DON'T HAVE TO CHOOSE BETWEEN THE TWO. JUST PRESS PAUSE. AND EVEN THOUGH THE PROGRAM IS LIVE, YOU CAN TALK FOR AN HOUR, PRESS PLAY, AND NOT MISS ONE MOMENT OF YOUR SHOW. AND THAT IS JUST THE BEGINNING OF WHAT YOU CAN DO.

» CONTROL LIVE TV AND RECORDINGS



13

Pause a Live Program or a Recording

1. Press **Pause**  to freeze the action. The Status Bar appears briefly in the Pause position at the bottom of the screen. For programs that you're watching live, DVR will remain in pause mode for up to 1 hour.
2. Press **Pause**  again or press **Play**  to resume playing the program.

Status Bar

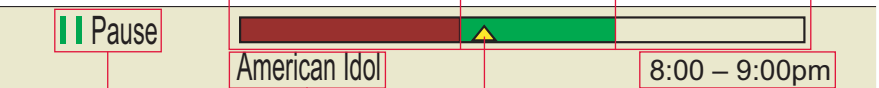
The Status Bar appears whenever you pause, rewind, or fast-forward a live program or a recording.

For a live program, red indicates missed programming (from the time the program began until the time you tuned to it).

For a recording, red indicates the portion of programming that was not recorded.

Green indicates the portion of the program that DVR has buffered or saved.

For a live program, beige indicates the portion of the program not yet broadcast.



This area represents the current status (paused in this case).


The name of the program appears beneath the bar.

The yellow pointer indicates where you are in the program.

For a live program, the time of the broadcast displays.

For a recording, the program length displays.

Use Instant Replay


Press **Instant Replay**  to watch the last 8 seconds of a live program or a recording again. Every additional press jumps back 8 more seconds. Never miss a moment of your favorite show again!












» CONTROL LIVE TV AND RECORDINGS

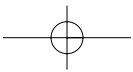
Rewind or Fast-Forward a Live Program or Recording

Rewind a live program or a recording to watch a portion of it again, or fast-forward through portions you don't want to watch. You can rewind or fast-forward in any of three different speeds, as explained in the box on the next page.

1. Make sure that the program or recording is not in Pause mode. If it is paused, press **Play** .
2. Rewind or fast-forward the live program or recording by following the instructions below.

To	Press	Result
Rewind		Action reverses and the Status Bar appears in the Rewind position at the bottom of the screen. The pointer on the Status Bar moves to the left as you rewind the program. Note: When you rewind a live program or recording to the point where you first tuned to it, the recording automatically begins replaying at normal speed. Speed up: Press Rewind  one or two more times to incrementally increase the speed. Press it again and the program resumes playing at normal speed. When you reach the portion of the program you wish to watch at normal speed, press Play  . The Status Bar indicates the Play position and the program plays at normal speed.

To	Press	Result
Fast-forward		Action speeds up and the Status Bar appears in the Fast-forward position at the bottom of the screen. The pointer on the Status Bar moves to the right as you fast-forward the program. Speed up: Press Fast-forward  one or two more times to incrementally increase the speed. Press it again and the program resumes playing at normal speed. When you reach the portion of the program you wish to watch at normal speed, press Play  . The Status Bar indicates the Play position and the program plays at normal speed. Live TV: When you reach the end of the buffered program and catch up with the live broadcast, the Status Bar briefly indicates Live and the program automatically begins playing at normal speed. Recordings: When you reach the end of a recording, the Playback Status screen appears to give you the option to erase the recording. If you do not wish to view it again, you may erase it to allow space for your future recordings. To exit from this screen and return to live TV, press Last  or press Channel Up  or Channel Down  .

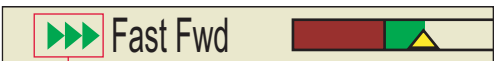


» CONTROL LIVE TV AND RECORDINGS



15

Status Bar Speed Indicator





A green arrow (◀ or ▶) indicates how fast you are advancing or rewinding a program. Each time you increase the speed, another arrow appears.



Rewind or fast-forward in any of three speeds:





- Press once and increase the speed to approximately 4 times the normal play speed.
- Press twice and increase the speed to approximately 10 times the normal play speed.
- Press three times and increase the speed to approximately 32 times the normal play speed.

Use Slow Motion


1. While watching live TV or playing a recording at normal speed, press **Play**  once. The action is shown in slow motion.
2. To resume play in normal speed, press **Play**  again.

Watch Action Frame by Frame

Analyze sports events and other programs by watching the action frame by frame — one second at a time.

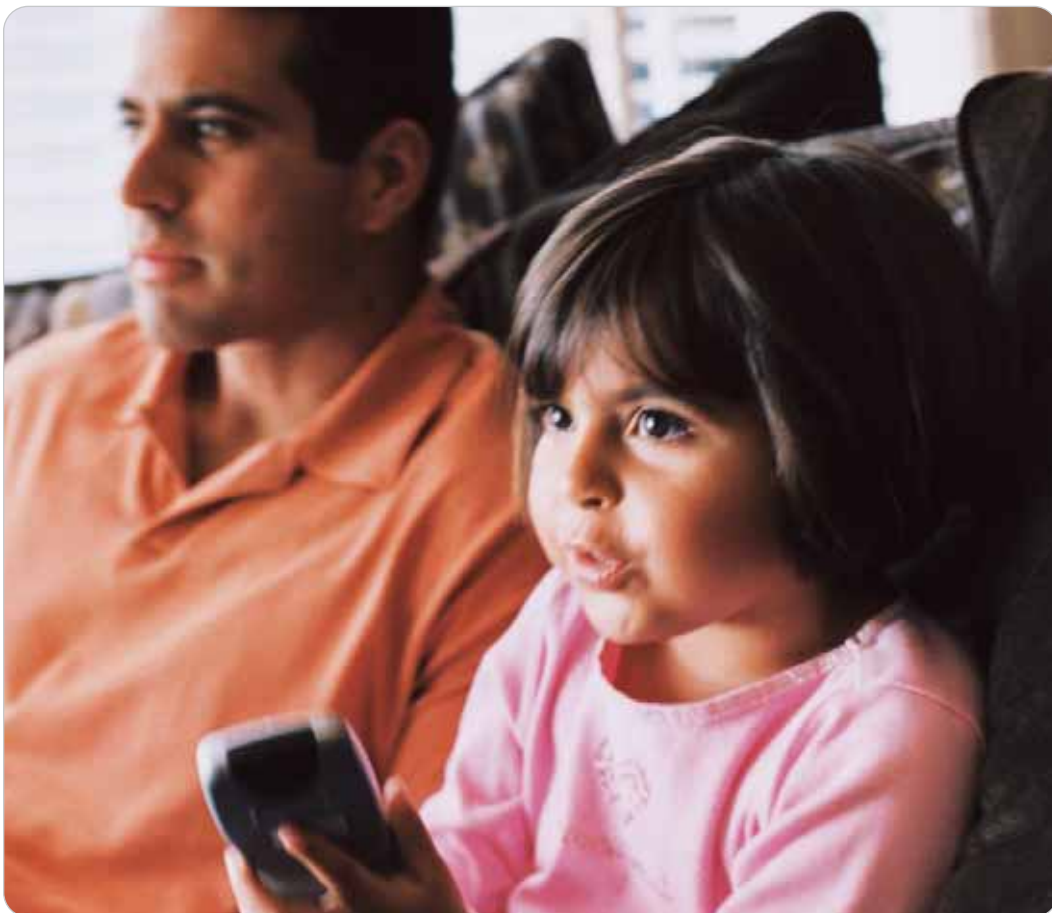
1. Press **Pause** . The action pauses.
2. Press **Fast-forward**  or **Rewind**  to make action move one frame at a time.
3. To resume play at normal speed, press **Play** .

Catch Up with a Live TV Program

When you pause or rewind a live program, the program continues to be broadcast and stored in the buffer. You can continue watching the buffered program (delayed from the live broadcast), or you can catch up with the live broadcast by pressing **Live** .

Note: The Live key is inactive when you are playing back a recording.

» WATCH TWO PROGRAMS AT ONCE



SO YOU WANT TO WATCH THE BIG GAME. AND YOUR DAUGHTER WANTS TO WATCH NICKELODEON. YOU HAVE A CHOICE BETWEEN SEEING HISTORY MADE OR SEEING THE APPLE OF YOUR EYE CRY HER EYES OUT. NO PROBLEM. WITH PICTURE-IN-PICTURE (PIP), YOU BOTH GET YOUR WAY. AND YOUR TV DOESN'T EVEN NEED A BUILT-IN PIP FEATURE.

» WATCH TWO PROGRAMS AT ONCE




17

Turn PIP On and Off



DVR has built-in picture-in-picture (PIP). When you turn on PIP, you can watch two channels at once. One channel appears as a full-screen image. The other appears as a small image within the full-screen image.

Note: If your television came with PIP functionality, you may wish to deactivate it, as the PIP images with DVR become twice as small if PIP functions are activated.

1. While watching a program, press **PIP On** . The PIP screen appears within the full screen, and a channel banner appears briefly under the PIP screen.

Note: You will only hear the sound of the program that is shown in the full screen.

2. To turn off the PIP screen, press **PIP Off** .

*Note: If you press **Info**  when the PIP feature is on, a channel banner appears for both screens. If either program is currently being recorded, its channel banner will show the Recording Now  or **REC** symbol.*






Full-screen image in main TV screen

Channel Banner appears briefly under PIP screen

PIP screen within the full-screen image

Change the Channel of the PIP Screen

1. Press **PIP On**  (unless already in PIP mode).
2. Press **PIP Channel Up**  or **PIP Channel Down** .

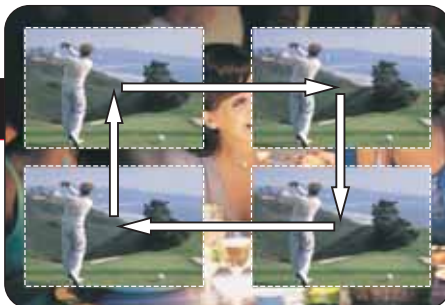
*Note: Pressing the main **Channel Up**  or **Channel Down**  key changes the channel of the program that is shown in the main TV screen.*

Move the Location of the PIP Screen

If the PIP screen blocks action in the main TV screen, move the PIP screen by pressing **Move** .

Possible Positions of the PIP Screen

Each time you press **Move** , the PIP screen moves clockwise to the next corner of the main TV screen as shown here.

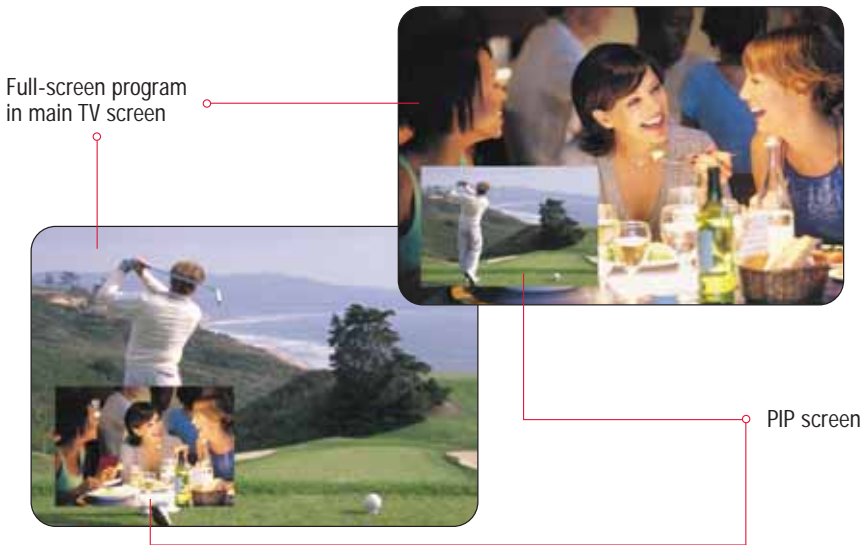




» WATCH TWO PROGRAMS AT ONCE

Swap the Main Screen and the PIP Screen

To move the full-screen program shown in the main TV screen to the PIP screen, press **Swap** .



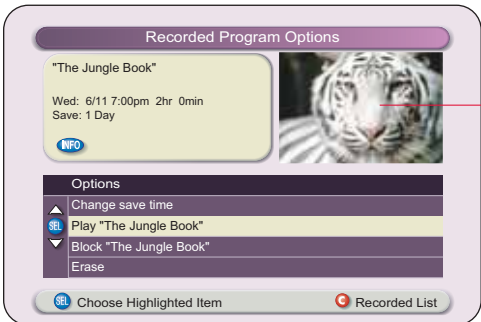
» WATCH TWO PROGRAMS AT ONCE



19

The PIP Screen and the Quarter Screen

Certain DVR screens, such as the Recorded Program Options screen shown here, show a reduced version of the main TV screen, known as a Quarter screen — which is not to be confused with a PIP screen.



To control the program in the Quarter screen or Main TV screen, use the main keys on the remote control, such as **Pause**, **Rewind**, or **Fast-forward**.



To control the program in the PIP screen, use the PIP keys, such as **Swap** or **Move**.

Note: You must swap the PIP screen to the full screen in order to pause, rewind, or fast-forward.

» RECORD AND PLAY BACK PROGRAMS



NOW THE REAL FUN BEGINS. WHAT YOU ONLY WISHED YOU COULD DO WITH YOUR VCR
NOW YOU CAN DO WITH DVR. RECORD DATELINE WHILE YOUR KIDS WATCH DISNEY.
RECORD DATELINE AND THE SIMPSONS WHILE YOUR KIDS WATCH A RECORDING OF
DISNEY. AUTOMATICALLY RECORD THE ENTIRE SEASON OF THE SOPRANOS. IT'S ALL
POSSIBLE WITH A CLICK-CLICK-CLICK OF A FEW BUTTONS.

» RECORD AND PLAY BACK PROGRAMS



21

Save Your Recorded Programs

DVR can save at least 30 hours of recorded programs. To maximize your storage space, keep the length of your Save Time setting to a minimum. Whether you record a program you're watching live, or schedule a program to be recorded in the future, you can select how long you want the recording to be saved in three ways:

- Use the default Save Time setting. This is the quickest way to save recordings because you don't need to select the save time each time you record a program. DVR will save the recording using the length of time established by the default setting.
- Select the Save Time when you schedule a new recording.
- Change the Save Time after recording a program.

Note: DVR is not a long-term storage device. To further maximize your storage space, review your list of recordings regularly and erase the recordings you no longer wish to save. For long-term storage, a program can be transferred to your VCR (see "Copy Recordings to a VCR Tape" on page 35).

SAVE TIME

2 Days

7 Days

14 Days

Until erased

1 Day

Save Time Setting

The DVR default Save Time setting is set to automatically save each recording for 14 days. Then DVR erases the recording to make space for other programs you want to record. You can change the default setting from 14 days to 1, 2, or 7 days — or to "until erased." "Until erased" means it will be saved until you erase it yourself.

SAVE TIME

2 Days

7 Days

14 Days

Until erased

1 Day

Record a Program That You Are Watching Live

To record a program that you are watching live, make sure that you tune to the channel when the program begins, then press **Record** . This ensures that you record the entire program from its beginning. Otherwise, you'll record only part of the program.


DVR cannot determine whether a live program will end at its scheduled time. If there is a chance that the event you are recording may continue past its scheduled time, you can allow for this uncertainty by extending the stop time on the Confirm Recording screen.



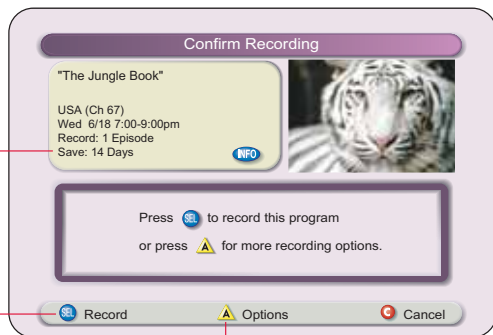
» RECORD AND PLAY BACK PROGRAMS



Recording a Program

If you want to record a program that you are watching and save it according to your default Save Time setting:

1. Press **Record**  on the remote control. The Confirm Recording screen appears.

The default Save Time appears here in the Information area.



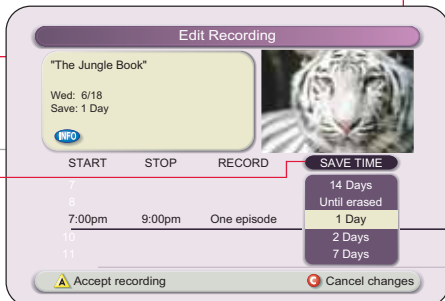
2. Press **Select**  to record with the default Save Time setting and skip steps 3, 4, and 5.
- or -
Press **Options**  to change the default Save Time setting.

3. Press **Move Left**  once. The Save Time options are highlighted.

4. Press **Move Up**  or **Move Down**  to highlight the length of time you want to save the recording.

5. Press **Accept Recording** . DVR records the program using the Save Time option that you selected.

Select **Save Time** from the Edit Recording screen to save a recording for that specific length of time.



» RECORD AND PLAY BACK PROGRAMS

23

While DVR records you are free to:






- Continue to watch the channel while the recording is being made.
- Pause, fast-forward, or rewind the program without affecting the recording.
- Change channels (as long as only one program is being recorded).
- Turn off the TV without affecting the recording.
- Turn on the PIP feature. Note: The PIP screen will not appear in the recording.
- Display the Recorded List screen or the Program Guide.




When recording, the red **Record** light is on.

Record a Single Program or All Episodes of a Future Program










To record programs when you are away, or to schedule future recordings, start from the Program Guide.

1. If the Program Guide is not shown, press **Guide** .
2. Press the **directional keys**  to move through the listings in the guide and highlight the program you want to record. Or, press **Browse By**  and look for a program by title, channel, or theme.
3. Once the program is highlighted, press **Record** . The Confirm Recording screen appears.
4. Press **Select** or press  to edit recording options.

To Record	Press	Result
A single program		DVR saves this information and displays the Program Guide, highlighting the program title in red, indicating that a program is scheduled to be recorded. To record all episodes of a program, follow the instructions in the table on the next page.



» RECORD AND PLAY BACK PROGRAMS

To Record	Press	Result
All episodes		The Edit Recording screen appears.
	 twice	The Record options are highlighted.
	 or 	Each option is highlighted as you move up or down the list. Stop when All episodes is highlighted.
		The Record options show All episodes and the Save Latest options are now highlighted.
	 or 	Each option is highlighted as you move up or down the list. Stop when the option you want to select is highlighted.
		The Save Latest options show your selection.
		DVR saves this information so that it can record episodes as they are broadcast.

Important: Whenever you set up DVR to record all episodes of a program, it records indefinitely until you cancel the recordings or run out of storage space.

Save Latest Options

When scheduling a recording of **All episodes**, you can choose to save the 2, 3, 4, or 5 most recent episodes. Or, you can save every episode until you cancel the recordings or run out of storage space.

For example, let's say that you choose to save the 2 most recent episodes of a program that is broadcast every weeknight Monday through Friday. First, DVR would record Monday and Tuesday night's episodes. Then, when DVR records the program on Wednesday, it automatically deletes the program it recorded on Monday. So the Tuesday and Wednesday recordings are now saved. Then, on Thursday, the Thursday episode will be recorded, the Tuesday recording will be erased, and so on.

SAVE LATEST

4 Episodes

5 Episodes

All Episodes

2 Episodes

3 Episodes



» RECORD AND PLAY BACK PROGRAMS

25



Record Two Programs at Once

DVR gives you different ways to record two programs at once:

- Schedule two programs to record at the same time by following either of the procedures in "Record a Single Program or All Episodes of a Future Program" on page 23 and 24.
- Record two live programs at the same time by recording one program and then tuning to another channel and recording a second program. The first program begins recording as soon as you tune to it and press **Record** . The second program begins recording when you tune to it and press **Record** . For details on recording programs live, see "Record a Program That You Are Watching Live" on page 21.

Note: When recording two programs live at the same time, you can watch them while they record, or you can play back a recording and watch it as well, but you cannot tune to another channel and watch a third program live.

Note: Music Choice and ON DEMAND cannot be recorded.

Recording and Watching Programs

If, while recording two programs, you try to tune to another channel, DVR displays a **Channel Change Notice** to let you know that you must stop a recording to change channels. For details, see "Cancel a Recording That's in Progress" on page 28.

- You can always press **My DVR**  to access your recordings and change scheduled recordings.







» RECORD AND PLAY BACK PROGRAMS

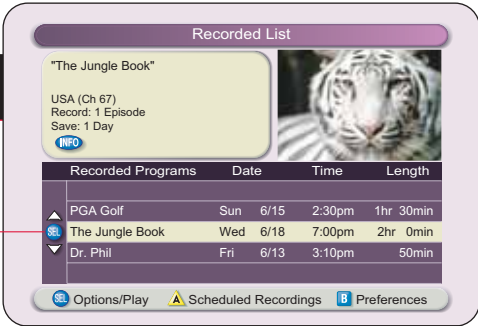
Display a List of Your Recorded Programs

To display a list of your Recorded Programs, press **My DVR** .

To exit from the Recorded List screen and display full-screen TV, press **My DVR**  again or press **Exit** .









Recorded List Screen

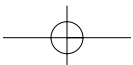
Scroll through your list of recorded programs, as well as those currently being recorded.



Play Back a Recorded Program

Play back your recorded programs whenever you want. You can even record one or two programs live while you play back a program you recorded earlier.

1. If the Recorded List screen is not displayed, press **My DVR** . The Recorded List screen appears.
2. Press **Move Up**  or **Move Down**  to highlight the recording you want to watch.
3. Press **Select** . If you select the recording that you have most recently watched, the recording begins playing immediately. Otherwise, the Recorded Program Options screen appears with the option "Play [title of program]" highlighted.
4. Press **Select** . The recording begins playing. You can use pause, rewind, fast-forward, or any other keys on the remote.
5. When the recording finishes (or when you fast-forward to the end of the recording), the Playback Status screen appears to give you the option to erase the recording. If you do not wish to view it again, you may erase it to allow space for future recordings. To exit from this screen and return to live TV, press **Last**  or press **Channel Up**  or **Channel Down** .





» RECORD AND PLAY BACK PROGRAMS




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Display a List of Programs You Have Scheduled To Be Recorded

1. If the Recorded List screen is not displayed, press **My DVR** . The Recorded List screen appears.
2. Press **Scheduled Recordings** . The Scheduled Recordings screen appears with a list of all the programs you have scheduled to record.

Scheduled Recordings Screen








If a program is currently being recorded, the **Recording Now**  symbol appears in the Information area of the screen when that title is highlighted below.

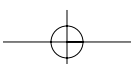
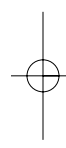
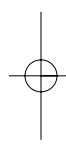
Programs that are scheduled to be recorded appear in this list along with any programs that are currently being recorded.



Cancel a Scheduled Recording

You can cancel a scheduled recording at any time:

1. If the Recorded List screen is not displayed, press **My DVR** . The Recorded List screen appears.
2. Press **Scheduled Recordings** . The Scheduled Recordings screen appears.
3. Press **Move Up**  or **Move Down**  to highlight the recording you want to cancel.
4. Press **Select** . The Edit Scheduled Recordings screen appears.
5. Press **Cancel Recording** . The Confirm Cancel screen appears, displaying the question, "Are you sure you want to cancel recording this program?"
6. Press **Yes, Cancel** .









» RECORD AND PLAY BACK PROGRAMS

Cancel a Recording That's in Progress


You can stop a recording in progress at any time.


When you stop a recording, you can save what has been recorded or erase the entire recording.

1. If you are not watching the recording, tune to the channel that is being recorded.
2. Press **Stop** . The Stop Recording screen appears.
3. Press **Move Up**  or **Move Down**  to highlight the option you want.
4. Press **Select** . The red **Record** indicator on the front of the DVR turns off.

Forget what program you're recording?

DVR gives you three ways to find programs that are currently being recorded:

- Turn on the PIP feature and press **Info** . Both channel banners appear, and the **Recording Now** **REC** symbol is displayed if one of the channels is currently recording.
- Display the Recorded List screen and, as you move up or down the list, look in the Information area of the screen for a recording with the **Recording Now** **REC** symbol.
- Display the Program Guide and look for a program that is highlighted in red.

If you want to view the program that is being recorded, select the program either from the Recorded List or from the Program Guide, and then press **Select** .

» MANAGE PROGRAMS AND RECORDINGS

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NOW YOU CAN EASILY MANAGE YOUR PROGRAMS WITHOUT MAKING IT A CHORE. GOT KIDS? CONTROL WHAT THEY WATCH — EVEN WHEN YOU'RE NOT AROUND. WANT TO RECORD EVERY FRIENDS EPISODE BUT DON'T WANT TO STORE THEM FOREVER? SET DVR TO AUTOMATICALLY DELETE THEM WHEN SPACE IS NEEDED.



» MANAGE PROGRAMS AND RECORDINGS

Keep Others from Watching a Program

You can prevent children or anyone else from watching specific programs by using the **Parental Control** feature. Blocking programs using **Parental Controls** is a 3-step process. First, you must turn **Parental Control** on; second, you must enable your PIN; and third, you must select programs to be blocked.

Turn Parental Control On and Off

1. Press **Menu** . The Quick Settings menu appears.
2. Press **Move Up** or **Move Down** to highlight the option **Turn OFF/ON Parental Control**.
3. Press **Select** to change the Parental Control setting to **ON** or **OFF**. The **PIN Entry** screen appears.
 - **When Parental Control is on**, only those who know your PIN can view programs that you've selected for blocking.
 - **When Parental Control is off**, anyone can view any program.
4. Press the numeric keys on the remote control and enter your 4-digit PIN. The **PIN Entry** screen disappears.

Note: These symbols indicate the status of the Parental Control feature:

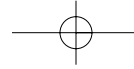
A **Closed Lock** on the channel banner indicates that the Parental Control feature is on and that this channel or program is blocked.

An **Open Lock** indicates that the Parental Control feature is off and that this channel or program is set to be blocked, but is not currently blocked.

Note: The Parental Control feature must be on in order to block programs. However, as a precaution, DVR automatically activates the Parental Control feature whenever the DVR is powered off and powered on again. When the Parental Control feature is on, you must enter your 4-digit personal identification number (PIN) to watch a blocked program.

Enable your PIN for Parental Control

1. Press **Menu** twice on your remote control to access the General Settings menu.
2. Press **Move Down** to highlight **Block: PIN**.
3. If **PIN** shows "Enabled," just hit exit and proceed to step 6. If **PIN** shows "Disabled," then press to select "Enabled."
4. When prompted for a **PIN**, enter a 4-number code.
5. You will be prompted to re-enter your **PIN** to confirm the code.
6. Press exit or, if you wish to block programs, go to Select Programs to be Blocked.



» MANAGE PROGRAMS AND RECORDINGS



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Select Programs to Be Blocked

You can select programs to block by channel, rating, time of day, or any combination of these methods:

1. Press **Menu** twice on your remote to access the Settings menu.
2. Press **Move Up** or **Move Down** to highlight one of the following options:
 - **Block:Channels** blocks all programs on a specific channel.
 - **Block:Rating** blocks all programs according to the rating assigned to the program, such as G, PG, PG-13, or R.
 - **Block:Time New** blocks all programs broadcast during a specific time of day.
3. Press **Select** . A Pin Entry screen appears.
4. Press the number keys to enter your 4-digit Personal Identification Number (PIN) or create one. A block menu (for the option you selected in step 2) appears.
5. To block by channel or rating, select **Block:Channels** or **Block:Rating**. Press **Move Up** or **Move Down** to highlight the channel, rating, or date you want to block. Or, if your local Comcast system allows, you may select a channel by pressing the numeric keys on your remote control.
6. Press **Select** . DVR indicates the channel or rating is blocked. If you're blocking a broadcast time, skip to step 8.

Note: DVR indicates a blocked channel or blocked rating in the following ways:

- **Blocked channels:** The channel number is listed in the right column on the General Settings menu, and a **Closed Lock** symbol appears in the CHANNELS column next to the channel you selected.
 - **Blocked ratings:** A **Closed Lock** symbol appears in the RATING column next to the rating you selected.
7. Continue this process of highlighting and selecting the channels or ratings you want to block. When all those channels and ratings have a **Closed Lock** symbol next to them, press **Accept** to have DVR accept your blocks. Go to step 10.
 8. To block by time, select **Block:Time New**. In the START column on the General Settings menu, change the time shown to the time you want the block to start by following this process:
 - A. Press **Move Left** or **Move Right** to highlight the one you want to change (hours, minutes, and A.M. or P.M.).
 - B. Press **Move Up** or **Move Down** to change the setting. Or, if your local Comcast system allows, you may select a setting by pressing the numeric keys on your remote control.
 - C. Repeat this process to change each setting as necessary.
 - D. When the correct START time is shown, press **Select** . The time you want to start blocking programs appears in the START column and the cursor moves to the STOP column.



» MANAGE PROGRAMS AND RECORDINGS

9. In the STOP column, change the time shown to the time you want the block to end by following this process:
 - A. Press **Move Left** or **Move Right** to highlight the one you want to change (hours, minutes, and A.M. or P.M.).
 - B. Press **Move Up** or **Move Down** to change each setting. Or, if your local Comcast system allows, you may select a setting by pressing the numeric keys on your remote control.
 - C. Repeat this process to change each setting as necessary.
 - D. When the correct STOP time is shown, press **Accept** to have DVR accept the start and stop times you have entered.
10. Turn on the **Parental Control** feature to have DVR block the programming you selected. (See "Turn Parental Control On and Off" on page 30.)

Remove Blocks from Programs

Follow the same steps as "Select Programs to Be Blocked" and deselect those programs you wish to be unblocked. The **Closed Lock** symbol will disappear, indicating that the programming is no longer selected for blocking.

Keep Others from Watching a Recording

You can keep others from watching a recording by using the Block feature when Parental Controls are turned on. Keep in mind you can only block recordings that you're not watching. This feature is useful if children also use DVR and you do not want them to watch certain recordings.

Note: To block a program that's scheduled to be recorded, block the program from the General Settings menu. DVR will record the program, but the recording can only be watched after you enter your 4-digit Parental Blocking PIN.

1. If the Recorded List screen is not displayed, press **My DVR** . The Recorded List screen appears.
2. Press **Move Up** or **Move Down** to highlight the recording you want to block.
3. Press **Select** . The Recording Options screen appears.
4. Press **Move Down** . The option "Block [title of program]" is highlighted.
5. Press **Select** . The PIN Entry box appears.
6. Press the number keys to enter your 4-digit PIN. The PIN Entry screen disappears, and the **Closed Lock** symbol appears in the Information area of the Recorded List screen.

» MANAGE PROGRAMS AND RECORDINGS



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Recording Options Screen

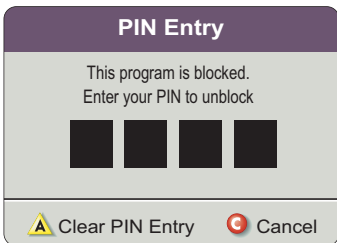
After you block a recording, the **Closed Lock** symbol appears in the Information area to indicate that the recording can be played only by entering a PIN.

In addition to blocking a program from this screen, you can also play or erase a program, or you can change the Save Time of a program.

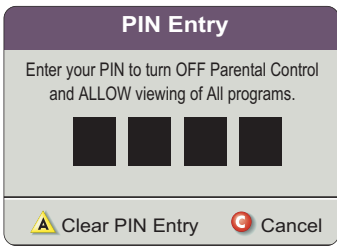
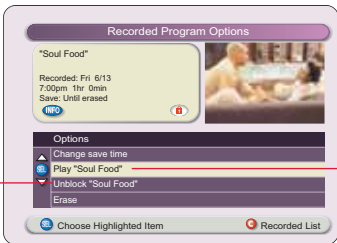


Playing Back Blocked Recordings

From Recorded Program Options or Recorded List, you can watch a blocked program by either:



Selecting "Unblock [title of program]." The Program PIN Entry screen appears. Enter your 4-digit PIN to turn off blocking only for this recording. Other recordings and programs continue to be blocked if Parental Control is on.








Selecting "Play [title of program]." The Parental Control PIN Entry screen appears. Enter your 4-digit PIN to turn off Parental Control. When Parental Control is off, **all** recordings and programs can be viewed.









» MANAGE PROGRAMS AND RECORDINGS

View a Blocked Recorded Program

1. Press **My DVR**  to view your Recorded List.
2. Highlight the Program Title you wish to watch.
3. Press **Select** .
4. Press **Move Down**  to highlight Unlock.
5. Press **Select** .
6. Enter your 4-digit **PIN**.
7. Highlight **Play**.
8. Press **Select** .

Reblock a Recorded Program

1. When you are done viewing the recorded program, press **My DVR** .
2. Highlight another title (any program other than the one you wish to block).
3. Press **Select** .
4. Press **Move Down**  to highlight Unblock.
5. Press **Stop**.
6. Press **My DVR** .
7. Highlight the show you wish to block.
8. Press **Select** .
9. Highlight **Block**.
10. Press **Select** .
11. Enter **PIN**.

Note: Comcast is in the process of simplifying this procedure. We appreciate your understanding.

» MANAGE PROGRAMS AND RECORDINGS



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Maximize Your Storage Space

DVR can save at least 30 hours of recorded programs, depending on the programming source, but it is not intended as a long-term storage device. To make the most efficient use of your storage space, follow these guidelines:

- Set your default Save Time setting to 14 days or less. Setting it to “until erased” causes the storage space to fill up more quickly.
- After you watch a recording, decide to either erase it or keep it permanently by transferring it to a VCR tape and then erasing it from DVR.

Copy Recordings to a VCR Tape

When you copy recordings to a VCR tape, make sure that the recording is displayed on the main TV screen for the entire time that the recording is being copied. If you change channels or display other DVR screens during the copying process, your tape copy will contain these images and you will not have a complete copy of the recording.

1. Connect the VCR to the **Cable Out** or **OUT 1 (TV)** connection on the back of the DVR. (In the near future, you'll be able to use the VCR Port for recording to a VCR tape.)
2. Put a tape in your VCR and prepare the VCR to record.
3. Press **My DVR** . The Recorded List screen appears.
4. Press **Move Up**  or **Move Down**  to highlight the recording you want to copy to the VCR.
5. Press **Select** . The Recording Options screen appears with the option “Play [title of program]” highlighted.
6. Start recording on the VCR.
7. Press **Select** . As the recording plays, it is taped to your VCR.



» MANAGE PROGRAMS AND RECORDINGS

Change the Default Save Time Setting for Future Recordings

The DVR default Save Time setting is set to automatically save each recording for 14 days. DVR then erases the recording to make space for other programs you want to record. You can change the default setting from 14 days to 1, 2, or 7 days — or to “Until erased.”

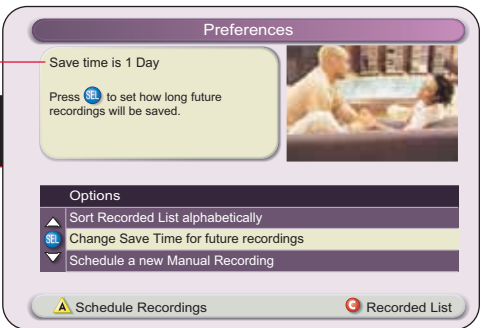
Important: When you change the default Save Time setting, all future recordings recorded with the default Save Time will be saved according to the new Save Time setting.

To change the default Save Time setting:

1. Press **My DVR** if the Recorded List screen is not displayed. The Recorded List screen appears.
2. Press **Preferences** . The Preferences screen appears.
3. Press **Move Up** or **Move Down** to highlight “Change Save Time for Future Recordings.”
4. Press **Select** . The options for Save Time appear.
5. Press **Move Up** or **Move Down** to highlight your desired Save Time.
6. Press **Select** . The Save Time options disappear, the Preferences screen appears, and the new default Save Time setting appears in the Information area of the screen.

Preferences Screen

After you select a new default Save Time, DVR displays your new selection in the Information area.



» MANAGE PROGRAMS AND RECORDINGS



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Change the Save Time of a Recording You Have Saved

After recording a program, you can change how long DVR will save the recording:

1. Press **My DVR** if the Recorded List screen is not displayed. The Recorded List screen appears.
2. Press **Move Up** or **Move Down** to highlight the recording with the Save Time you want to change.
3. Press **Select** . The Recording Options screen appears.
4. Press **Move Up** . The option Change Save Time is highlighted.
5. Press **Select** . The Save Time screen appears.
6. Press **Move Up** or **Move Down** to highlight the new Save Time.
7. Press **Select** . In the Information area of the screen, the message “One moment please” appears, and the new Save Time displays on the Recorded List screen.

Erase a Recording

Permanently erasing programs that you no longer want to watch creates space to record and store other programs. If DVR becomes full, some programs may be partially saved or not saved at all. DVR holds at least 30 hours of programs.

1. Press **My DVR** if the Recorded List screen is not displayed. The Recorded List screen appears.
2. Press **Move Up** or **Move Down** to highlight the recording you want to erase.
3. Press **Select** . The Recording Options screen appears.
4. Press **Move Down** twice. The option **Erase** is highlighted.
5. Press **Select** . The message “Are you sure you want to erase this recording?” appears.
6. Press **Yes, Erase** . The message “One moment please” appears in the Information area of the screen, and the program is removed from the list.

» FREQUENTLY ASKED QUESTIONS

Questions about DVR

What happens if DVR temporarily loses power?

All recordings that were saved prior to the power loss are preserved, as well as future recording schedules. You miss only the recordings that were scheduled to be made while the power was out.

Where can I find details on installing DVR?

Go to www.comcast.com to find helpful information on a number of topics, including installation and setup. Just click on "Digital Cable." Then select "Digital Video Recorder." Or, you may also visit www.sciatl.com. (You will need the serial number of your DVR to access the information.) See page 40 for details on locating the serial number.

Why doesn't DVR respond when I press the keys on the remote control?

You may not be in the Cable mode. To use any of the DVR features, including the PIP feature, DVR must be in Cable mode. See page 8 for details.

Questions about Controlling a Live Program or Recording

How far back can I rewind a program?

It depends on whether it's a live or recorded program. For live programs you have watched less than one hour, you can rewind back to the point where you started watching. If you have watched a live program for longer than an hour, you can rewind up to the last hour that you've watched. For recorded programs, you can rewind to the beginning of the recording. For details, see page 14.

Can I pause, rewind, or fast-forward a program in the PIP screen?

No. Those keys only control the program shown in the main TV screen so you can swap the PIP screen and the main screen and then use pause, rewind or fast-forward. See page 18 for details.

Can I pause, rewind, or fast-forward a program shown in the upper right corner of DVR screens like the Program Guide or the Recorded List screen?

Yes. The small screen shown in the upper right (a.k.a. the Quarter screen) is actually the main TV screen. It is reduced to fit while viewing other information. Keys such as pause, play, rewind, and fast-forward control the main TV screen — whether the screen fills the monitor of your TV or whether it is reduced to fit in another information screen.

Sometimes I am able to record much more than 30 hours of programs. Why?

The amount of programming that you are able to record depends on the type of program you are recording. Analog programming (generally, channels 2 through 78) takes up more space than digital programming (generally, channels 100 and above). So if you only record digital programming, you will be able to record more hours of programs.

How will I know that recording space is low?

A message will appear when remaining recording space is 5% or less. The Recording Space Low message will appear when you schedule a new recording.

What happens when I run out of recording space while I'm recording a program?

When the DVR runs out of disk space, it will stop recording the program. When you go to your Recording List, you will receive a message stating that your last recording was not complete.

» FREQUENTLY ASKED QUESTIONS

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Questions about Watching Two Programs at Once

If a program is being recorded in the PIP screen and I turn off the PIP feature, will the recording continue?

Yes. DVR will continue to record the program even if you turn off the PIP feature.

What if my TV doesn't have the PIP feature?

That's no problem. You can still use the PIP feature because DVR provides the PIP feature, not your TV.

My TV has the PIP feature; why is PIP so much smaller now?

If your television came with PIP functionality, you may wish to deactivate it, as the PIP images with DVR become twice as small if your TV's PIP functions are activated.

Questions about Recording Programs and Playing Them Back

Can I record the program that is shown in the PIP screen?

You can record a program that is shown in the PIP screen, but you must start the recording from the main TV screen. For details, see "Record Two Programs at Once" on page 25.

Can I play back more than one recording at the same time?

No. You can play only one recording at a time.

Can I recover a recording that was erased from DVR?

Unfortunately, no. Once it's been erased from the Recorded List, it's gone. However, you can copy programs to a VCR tape. You can also extend the length of time a program is saved. For details, see "Copy Recordings to a VCR Tape" on page 35 and "Change the Save Time of a Recording You Have Saved" on page 37.

Can I record two programs at the same time and watch the playback of a third program?

Yes. However, if, while recording two programs, you try to tune to another live channel, DVR displays a Channel Change Notice to let you know that you must stop a recording to change channels. For details, see "Cancel a Recording That's In Progress" on page 28.

What happens if a sports event that I scheduled to record goes into overtime?

DVR cannot determine whether a live program will end at its scheduled time. If there is a chance that the event you are recording may continue past its scheduled time, you can allow for this uncertainty by extending the stop time on the Confirm Recording screen.

If I've used the Parental Control feature to block a rating or channel in the guide, will recordings of these programs also be blocked?

Yes. If you have blocked programs by channel or rating in the General Settings menu, recordings of these programs will also be blocked if the Parental Control setting is on. They will be recorded, but to play them back, you must enter your 4-digit PIN. For details, see "Playing Back Blocked Recordings" on page 33.

» FREQUENTLY ASKED QUESTIONS

Can I record ON DEMAND programs?

ON DEMAND programs cannot be recorded by DVR. But keep in mind that you can watch ON DEMAND programs as often as you want over a specified period and start them any time you choose.

Can I record high-definition (HDTV) programs?

Not just yet, but stay tuned as this feature is coming soon!

Why did DVR record only part of a program?

If the beginning of the program is missing, you may have started recording the program after it began. For an explanation of how DVR records live TV, see page 13.

If the end of the program is missing, DVR may have reached its storage capacity or the program may have continued past its scheduled end time.

If there is a chance that the program you are recording may continue past its scheduled time, you can allow for this uncertainty by extending the stop time on the Confirm Recording screen.

To determine if DVR has reached its storage capacity, display the Recorded List screen and highlight the program in question. The Information area indicates one of the following reasons:

- User stopped recording early
- Reached storage capacity

If you determine that DVR has reached its storage capacity, you can make space by erasing recordings that you no longer want or by copying those you want to keep to a VCR tape and then erasing them from DVR. For details, see “Copy Recordings to a VCR Tape” on page 35 or “Erase a Recording” on page 37.

I watched two back-to-back programs on the same channel, but when I pressed Record, DVR recorded only the second program. Why didn't it record both since it “buffered” both?

It recorded the second program because it was the live program at the time that you pressed Record. DVR does buffer all programs on a channel for up to one hour. However, when you are watching live programming, DVR assumes that you want to record a specific program, not a specific channel. For that reason, DVR records only the program that's currently being broadcast at the time you press Record.

For example, let's say that you tune to a channel for 45 minutes and during that time watch a 30-minute Friends episode and then watch the first 15 minutes of Will & Grace. You can rewind to the beginning of Friends, but if you press Record, DVR will only record Will & Grace because that was the live program at the time you pressed Record.

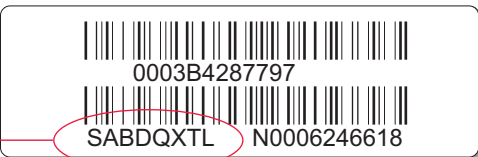
Can I erase part of a recording?

No. DVR can only erase the entire recording.

Where can I get more information?

Please visit www.comcast.com, call 1-888-COMCAST, or visit www.sciatl.com. If you visit the latter site, please have the serial number ready. To locate the serial number, look on the back of the DVR for a label. The serial number begins with SA and is located in the lower left corner of the barcode. See example at the right.

Sample serial number



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Power

Press to individually turn on or off the DVR,
TV, or Aux component.

Cable

Press to enable control of your digital cable
/ DVR box.

TV

Press to enable control of your TV. (Note:
This feature requires the digital remote to
be programmed to operate your TV.)

Instant Replay

Press to jump back 8 seconds for an
instant replay.

My DVR

Press to display a list of your
recorded programs.

Live

Press to skip forward to live programming.

Aux

Press to enable control of your VCR, DVD, or
Audio Device. (Note: This feature requires
the digital remote to be programmed to
operate the desired device.)

Lock

Press while watching a program or while
in a listings menu to restrict viewing
or purchase.

Guide

Press for a shortcut to program listings
organized by start time.

Exit

Press any time to return to watching TV.

Arrows

Press to move the highlight to the next
field in a menu or screen. Also use to
browse what's on other channels while
watching TV.

Info

Press to see a description of the
highlighted program, if available.

Fav

Press to view your FAVORITE channels,
if programmed.



Help

When using the Guide, press for helpful
on-screen information.

Input (TV/VCR)

In the CABLE mode, press to bypass the
digital cable converter. In the TV & AUX
modes, press to select available inputs.

All On

Press All On to turn on or off all the devices
programmed into the digital remote control.

Setup

Used to program your remote to control
your TV, VCR, DVD player, or audio
component during setup.

ON DEMAND

Press ON DEMAND to access the menu of
available ON DEMAND programming.
(Not available in all areas.)

Video Control Buttons

In CABLE mode, the buttons pause, fast-
forward, rewind, and stop any DVR or ON
DEMAND program you select. In the AUX
mode, these buttons will control a VCR or
DVD player, if programmed.

PPV

Press PPV to access information on
available pay-per-view selections.

Page (+/-)

Press to see the next/previous page of
listings.

Menu

Press to go to Settings.

Last

Press to return to the previous channel or
screen.

OK/Select

Press to select a highlighted item. Also
shows or hides program information while
watching TV.

Enter/HD Zoom

In TV & AUX mode, press to enter channels
on some TVs or information on menu
screens.



For more information,
call 1.888.COMCAST or click www.comcast.com